

1 .TITLE NAME1

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SUITE : P.C.B. LAYOUT
PROGRAM TITLE : REDAL 3 MARK 5
ROUTINE TITLE : NAME1

THIS PROGRAM SOURCE FILE IS SUPPLIED IN CONFIDENCE TO THE
CUSTOMER; THE CONTENTS OR DETAILS OF ITS OPERATION MAY
ONLY BE DISCLOSED TO PERSONS EMPLOYED BY THE CUSTOMER WHO
REQUIRE A KNOWLEDGE OF THE SOFTWARE CODING TO CARRY OUT
THEIR JOB. DISCLOSURE TO ANY OTHER PERSON MUST HAVE PRIOR
AUTHORISATION FROM THE DIRECTORS OF REDAC SOFTWARE LIMITED.

AUTHOR:
DATE : DEC 1974

PURPOSE: READ A COMPONENT NAME OR COMPONENT PREFIX
FOLLOWED BY *,**,!, OR !!. ALSO CHECKS TO SEE IF
COMPONENT CAN BE FOUND AND WILL FIX OR UNFIX THE
COMPONENT.

CALLING SEQUENCE AND DESCRIPTION OF ARGUMENTS
CALL NAME1 COMPON (1), EOCOMP
COMPON (1) - ADDRESS OF COMPONENTS ARRAY
EOCOMP - PTR TO FIRST FREE WORD IN COMPS ARRAY
AC IF THE COMPONENT IS FOUND RETURNS WITH THE COMPONENT
POINTER
IF THE COMPONENT IS NOT FOUND RETURNS WITH ZERO
AND POINTER TO THE NAME IN THE MQ
IF A !,!!,* OR* IS TYPED RETURNS WITH -1

I/O DEVICES AND FUNCTIONS
-2 READS CHARS FROM TT

REGISTERS USED AC,MQ

GLOBALS
.GLOBL .DA,NAME1

.EJECT

PAGE	2	NAME1	SRC	NAME1
43		00000	R 740040	A NAME1 XX
44		00001	R 120307	E JMS* .DA
45		00002	R 600005	R JMP .+3
46		00003	R 000000	A COMPAD 0
47		00004	R 000000	A EOCOMP 0
48		00005	R 140306	R DZM PRFLG# /NON-ZERO IF FIXING OR UNFIXING BY PREFIX
49		00006	R 140300	R DZM COLL
50		00007	R 140301	R DZM COLL+1 /COLLATE WORDS
51		00010	R 200310	R LAC (JMP DIFF
52		00011	R 040214	R DAC STOP1
53		00012	R 200311	R LAC (SZA
54		00013	R 040220	R DAC STOP2
55		00014	R 200312	R LAC (100402
56		00015	R 040272	R DAC NAME
57		00016	R 200313	R LAC (010040
58		00017	R 040273	R DAC NAME+1
59		00020	R	START .INIT -2.0,START
		00020	R 000776	A *G CAL+0*1000 -2&777
		00021	R 000001	A *G 1
		00022	R 000020	R *G START+0
		00023	R 000000	A *G 0
60		00024	R 777775	A LAW -3
61		00025	R 040276	R DAC CNTR
62		00026	R 100260	R FIRST JMS IN /READ A CHAR
63		00027	R 540314	R SAD (43
64		00030	R 440306	R ISZ PRFLG /A # FOUND
65		00031	R 540315	R SAD (41
66		00032	R 741000	A SKP
67		00033	R 600041	R JMP .+6
68		00034	R 440306	R ISZ PRFLG
69		00035	R 200316	R LAC (JMP DIFFA /A ! FOUND
70		00036	R 040214	R DAC STOP1
71		00037	R 200317	R LAC (SNA
72		00040	R 040220	R DAC STOP2
73		00041	R 723677	A AAC -101
74		00042	R 741100	A SPA
75		00043	R 600026	R JMP FIRST /NOT AN ALPHA
76		00044	R 723746	A AAC -32
77		00045	R 740100	A SMA
78		00046	R 600026	R JMP FIRST /DITTO
79		00047	R 723133	A AAC 133
80		00050	R 100076	R LUP JMS PACK
81		00051	R 100260	R JMS IN
82		00052	R 540320	R SAD (40
83		00053	R 600065	R JMP OUT
84		00054	R 540321	R SAD (175 /ALT MODE
85		00055	R 600065	R JMP OUT
86		00056	R 540322	R SAD (15 /C/R
87		00057	R 600065	R JMP OUT
88		00060	R 540323	R SAD (12
89		00061	R 600065	R JMP OUT
90		00062	R 440276	R ISZ CNTR

PAGE	3	NAME1	SRC	NAME1
91		00063	R 600050 R	JMP LUP
92		00064	R 100076 R	JMS PACK
93		00065	R 200273 R	OUT LAC NAME+1
94		00066	R 652000 A	LMQ
95		00067	R 200272 R	LAC NAME
96		00070	R 744000 A	CLL
97		00071	R 640610 A	LLS 10
98		00072	R 040272 R	DAC NAME
99		00073	R 641002 A	LACQ
100		00074	R 040273 R	DAC NAME+1
101		00075	R 600122 R	JMP OUTTT
102				/
103				/
104				/
105				/
106		00076	R 740040 A	PACK XX
107		00077	R 040277 R	DAC LETTER
108		00100	R 200301 R	LAC COLL+1
109		00101	R 652000 A	LMQ
110		00102	R 200300 R	LAC COLL
111		00103	R 744002 A	STL
112		00104	R 640507 A	LRS 7
113		00105	R 040300 R	DAC COLL /COLLATE WORDS SET UP FOR
114		00106	R 641002 A	LACQ
115		00107	R 040301 R	DAC COLL+1 /FIXING OR UNFIXING
116		00110	R 200273 R	LAC NAME+1
117		00111	R 652000 A	LMQ
118		00112	R 744000 A	CLL
119		00113	R 200272 R	LAC NAME
120		00114	R 640607 A	SHIFT LLS 7
121		00115	R 040272 R	DAC NAME
122		00116	R 641002 A	LACQ
123		00117	R 340277 R	TAD LETTER
124		00120	R 040273 R	DAC NAME+1
125		00121	R 620076 R	JMP* PACK
126				/
127				/
128				/
129				/
130				/
131				/ NOW SCAN COMPS TO FIND NAME
132		00122	R 200003 R	OUTTT LAC COMPAD
133		00123	R 040274 R	DAC SCAN
134		00124	R 360004 R	TAD* EOCOMP
135		00125	R 723777 A	AAC -1
136		00126	R 040275 R	DAC ENDCOM
137		00127	R 200306 R	LAC PRFLG
138		00130	R 740200 A	SZA
139		00131	R 600166 R	JMP PREFIX
140		00132	R 200274 R	LOOPY LAC SCAN
141		00133	R 540275 R	SAD ENDCOM
142		00134	R 600162 R	JMP ERROR /NAME NOT FOUND

PAGE	4	NAME1	SRC	NAME1
143		00135	R 440274	R ISZ SCAN
144		00136	R 220274	R LAC* SCAN
145		00137	R 440274	R ISZ SCAN
146		00140	R 540272	R SAD NAME
147		00141	R 741000	A SKP /1ST WORD SAME
148		00142	R 600147	R JMP .+5
149		00143	R 220274	R LAC* SCAN
150		00144	R 500324	R AND (777400
151		00145	R 540273	R SAD NAME+1
152		00146	R 600154	R JMP FOUND /FOUND COMP
153		00147	R 440274	R ISZ SCAN
154		00150	R 200274	R DELT LAC SCAN
155		00151	R 723003	A AAC 3
156		00152	R 040274	R DAC SCAN
157		00153	R 600132	R JMP LOOPY /TRY NEXT COMP
158		00154	R 440274	R FOUND ISZ SCAN
159		00155	R 220274	R LAC* SCAN
160		00156	R 741200	A SNA
161		00157	R 600150	R JMP DELT /DELETED COMPONENT
162		00160	R 200274	R LAC SCAN
163		00161	R 620000	R JMP* NAME1
164		00162	R 200325	R ERROR LAC (NAME
165		00163	R 652000	A LMQ
166		00164	R 750000	A CLA
167		00165	R 620000	R JMP* NAME1
168				/
169		00166	R 200306	R PREFIX LAC PRFLG
170		00167	R 640713	A ALS 13
171		00170	R 500326	R AND (4000
172		00171	R 040306	R DAC PRFLG /FIX OR UNFIX BIT
173		00172	R 200325	R LAC (NAME
174		00173	R 100236	R JMS LJUST /LEFT JUSTIFY NAME THAT HAS BEEN INPUT FORM TP.
175		00174	R 200302	R LAC BUFF
176		00175	R 040272	R DAC NAME
177		00176	R 200303	R LAC BUFF+1
178		00177	R 040273	R DAC NAME+1 /LEFT JUST. NAME IN NAME AND NAME+1
179		00200	R 200274	R CLUPP LAC SCAN
180		00201	R 540275	R SAD ENDCOM
181		00202	R 600234	R JMP DUNN /COMPONENTS SCANNED
182		00203	R 440274	R ISZ SCAN /TO FIST NAMEWORD
183		00204	R 200274	R LAC SCAN
184		00205	R 440274	R ISZ SCAN
185		00206	R 440274	R ISZ SCAN /TO WORD CONTANING FIXING BIT
186		00207	R 100236	R JMS LJUST /GETS NAME LEFT JUST. IN BUFF AND BUFF+1
187		00210	R 200302	R LAC BUFF
188		00211	R 240272	R XOR NAME
189		00212	R 500300	R AND COLL
190		00213	R 740200	A SZA /FIRST PARTS THE SAME
191		00214	R 740040	A STOP1 XX /JMP DIFF OR JMP DIFFA
192		00215	R 200303	R LAC BUFF+1
193		00216	R 240273	R XOR NAME+1
194		00217	R 500301	R AND COLL+1

PAGE	5	NAME1	SRC	NAME1
195		00220	R 740040 A	STOP XX /SZA IT #.SNA IF !.
196		00221	R 600230 R	JMP DIFF
197		00222	R 220274 R	DIFFA LAC* SCAN
198		00223	R 741200 A	SNA
199		00224	R 600230 R	JMP DIFF /COMPONENT DELETED
200		00225	R 500327 R	AND (773777
201		00226	R 340306 R	TAD PRFLG
202		00227	R 060274 R	DAC* SCAN /FIXED OR UNFIXED
203		00230	R 200274 R	DIFF LAC SCAN
204		00231	R 723003 A	AAC 3
205		00232	R 040274 R	DAC SCAN /UPDATED TO NEXT COMP.
206		00233	R 600200 R	JMP CLUPP
207		00234	R 777777 A	DUNN LAW -1 /VALUE AFTER PREFIX FIX OF UNFIX
208		00235	R 620000 R	JMP* NAME1 /EXIT
209				/
210				/
211				/SUBROUTINE FOR LEFT JUSTIFYING TWO WORDS POINTED TO
212				/BY ACC. ON ENTRY. RESULT IN BUFF AND BUFF+1.
213		00236	R 740040 A	LJUST XX
214		00237	R 040276 R	DAC CNTR /USED AS POINTER TO FIRST WORD
215		00240	R 723001 A	AAC 1
216		00241	R 040277 R	DAC LETTER /TO SECOND WORD
217		00242	R 220277 R	LAC* LETTER
218		00243	R 652000 A	LMQ
219		00244	R 220276 R	LAC* CNTR
220		00245	R 040302 R	BAK DAC BUFF
221		00246	R 641002 A	LACQ
222		00247	R 040303 R	DAC BUFF+1
223		00250	R 200302 R	LAC BUFF
224		00251	R 500330 R	AND (774000
225		00252	R 240331 R	XOR (200000
226		00253	R 740200 A	SZA /FIRST CHAR. IS A SPACE
227		00254	R 620236 R	JMP* LJUST /EXIT
228		00255	R 200302 R	LAC BUFF
229		00256	R 640607 A	LLS 7
230		00257	R 600245 R	JMP BAK
231				/
232				/
233				/
234				/
235				/ IN READS CHARS FROM KEYBOARD
236				/
237				/
238		00260	R 740040 A	IN XX
239				.READ -2,3,BUFF,3
		00261	R 003776 A *G	CAL+3*1000 -2&777
		00262	R 000010 A *G	10
		00263	R 000302 R *G	BUFF
			*G	.DEC
		00264	R 777775 A *G	-3
240				.WAIT -2
		00265	R 000776 A *G	CAL -2&777

PAGE	6	NAME1	SRC	NAME1
		00266	R 000012	A *G 12
241		00267	R 200304	R LAC BUFF+2
242		00270	R 500332	R AND (177
243		00271	R 620260	R JMP* IN
244				/
245				/
246				/
247		00272	R 000000	A NAME 0
248		00273	R 000000	A 0
249		00274	R 000000	A SCAN 0
250		00275	R 000000	A ENDCOM
251		00276	R 000000	A CNTR
252		00277	R 000000	A LETTER
253		00300	R 000000	A COLL 0
254		00301	R 000000	A 0
255		00302	R 000000	A BUFF 0
256		00303	R 000000	A 0
257		00304	R 000000	A 0
258		00305	R 000000	A JUMP 0
259			000000	A .END
		00307	R 000307	E *E
		00310	R 600230	R *L
		00311	R 740200	A *L
		00312	R 100402	A *L
		00313	R 010040	A *L
		00314	R 000043	A *L
		00315	R 000041	A *L
		00316	R 600222	R *L
		00317	R 741200	A *L
		00320	R 000040	A *L
		00321	R 000175	A *L
		00322	R 000015	A *L
		00323	R 000012	A *L
		00324	R 777400	A *L
		00325	R 000272	R *L
		00326	R 004000	A *L
		00327	R 773777	A *L
		00330	R 774000	A *L
		00331	R 200000	A *L
		00332	R 000177	A *L
		SIZE=00334		NO ERROR LINES

PAGE 7 NAME1 CROSS REFERENCE

BAK	00245	220*	230						
BUFF	00302	175	177	187	192	220	222	223	228
		239	241	255*					
CLUPP	00200	179*	206						
CNTR	00276	61	90	214	219	251*			
COLL	00300	49	50	108	110	113	115	189	194
		253*							
COMPAD	00003	46*	132						
DELT	00150	154*	161						
DIFF	00230	51	196	199	203*				
DIFFA	00222	69	197*						
DUNN	00234	181	207*						
ENDCOM	00275	136	141	180	250*				
EOCOMP	00004	47*	134						
ERROR	00162	142	164*						
FIRST	00026	62*	75	78					
FOUND	00154	152	158*						
IN	00260	62	81	238*	243				
JUMP	00305	258*							
LETTER	00277	107	123	216	217	252*			
LJUST	00236	174	186	213*	227				
LOOPY	00132	140*	157						
LUP	00050	80*	91						
NAME	00272	56	58	93	95	98	100	116	119
		121	124	146	151	164	173	176	178
		188	193	247*					
NAME1	00000	1	40	43*	163	167	208		
OUT	00065	83	85	87	89	93*			
OUTTT	00122	101	132*						
PACK	00076	80	92	106*	125				
PREFIX	00166	139	169*						
PRFLG	00306	48	64	68	137	169	172	201	
SCAN	00274	133	140	143	144	145	149	153	154
		156	158	159	162	179	182	183	184
		185	197	202	203	205	249*		
SHIFT	00114	120*							
START	00020	59*	59						
STOP1	00214	52	70	191*					
STOP2	00220	54	72	195*					
.DA	00307	40	44						